

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/706,435
Source:	1FWO
Date Processed by STIC:	2/1/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO-REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

	ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/706, 435
	ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
	2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
TELESTIF STORM (1997)	Misaligned Amino Numbering	
	4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
	5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
	6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
ranga Roja Benjada asil sebesa Pertebuahan India Pertebu	7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i)SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
		Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
	8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
	9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
	10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
	11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
	12PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
	13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 07/01/2004

PATENT APPLICATION:

Lanar, David E.
Hillier, Collette J.
Lyon, Jeffrey A.
Angov, Evelina
Kumar, Sanjai

US/10/706,435

TIME: 13:19:35

Input Set : A:\PTO.LM.txt

2 <110> APPLICANT: Walter Reed Army Institute of Research

Output Set: N:\CRF4\07012004\J706435.raw

```
Rogers, William
                   Barbosa, Arnoldo
           <120> TITLE OF INVENTION: Expression, Purification, and Uses of a Plasmodium
                   falciparum Liver Stage Antigen 1 Polypeptide
        14 <130> FILE REFERENCE: 003/285/SAP
        16 <140> CURRENT APPLICATION NUMBER: 10/706,435
        18 <141> CURRENT FILING DATE: 2003-11-12
        20 <150> PRIOR APPLICATION NUMBER: 60/425,719
        22 <151> PRIOR FILING DATE: 2002-11-12
                                                                             pg 1-4
  E--> 24 <160> NUMBER OF SEQ ID NOS: (28)27
        26 <170> SOFTWARE: Microsoft Word XP
  ERRORED SEQUENCES
                                                                      Does Not Comply
                                                                 Corrected Diskette Needed
        201 <210> SEQ ID NO: 5
        202 <211> LENGTH: 17
        203 <212> TYPE: PRT
                                                                                                  Xaa at location
        204 <213> ORGANISM: Artificial sequence
  W--> 205 <220> FEATURE:
      206 <223> OTHER INFORMATION: Consensus sequence of 17 amino acid repeats where x1

207 is either Glu or Gly; x2 is Ser or Arg; x3 is Asp or Ser; x4

208 is Glu or Asp; x5 is Leu or Arg; x6 is Lys or Asn and x7 is
location 207
                                                             Do NOT represent Xaa as X1, X2, etc.
        209
                    Lys or Thr or Arg.
                                                                Use Xaa only, and use <2227

Los show locations of Xaa's.

2.9. (2227 1,4,6,9,11,13,15
  W--> 210 <400> SEQUEN€E: 5
  E--> 211 (X1) Gln Gln (X2) Asp (X3) Glu Gln (X4) Arg
  E--> 212
  E--> 214(X5)Ala(X6)Glu(X7)Leu Gln
  E--> 215
  E--> 372 <210> SEQ ID NO: 19
                   ( Seg 18 is musing)
                                                                 ) misaligred averd a cid number.
See iten 3 on Ever Summary
                    seep 2
```

<210> 19

-) Sequera 18 mining (see p.3)

3

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/10/706,435

DATE: 07/01/2004 TIME: 13:19:36

IMPORTANT

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J706435.raw

Skipped Sequences (NEW RULES):

Sequence(s) __missing. If intentional, please use the following format for

each skipped sequence.

<210> sequence id number

<400> sequence id number

000

Seq#:18

sel p.4 for more error

<210> 3 <211> 1374 <212> DNA do not use italies or raised textor bold =print <213> Artificial Par 1.823 of Sequence Rules: "a <400> 3 fixed-width also, fort stould be when explaining " used exclusively Artificial Sequence; throughout the please que source of genetic moterial on 22237 leve Sequene Listing.

> The above is a sample of these types of even thoughout the Sequence Listing.

(mgv s or s

DATE: 07/01/2004

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/706,435 TIME: 13:19:36

Input Set : A:\PTO.LM.txt

L:32 M:283 W: Missing Blank Line separator, <220> field identifier

Output Set: N:\CRF4\07012004\J706435.raw

```
L:34 M:283 W: Missing Blank Line separator, <400> field identifier
L:45 M:283 W: Missing Blank Line separator, <220> field identifier
L:47 M:283 W: Missing Blank Line separator, <400> field identifier
L:58 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:283 W: Missing Blank Line separator, <400> field identifier
L:103 M:283 W: Missing Blank Line separator, <220> field identifier
L:105 M:283 W: Missing Blank Line separator, <400> field identifier
L:205 M:283 W: Missing Blank Line separator, <220> field identifier
L:210 M:283 W: Missing Blank Line separator, <400> field identifier
L:211 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:211 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:4
L:212 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
L:214 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:214 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:3
L:215 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
L:221 M:283 W: Missing Blank Line separator, <220> field identifier
L:223 M:283 W: Missing Blank Line separator, <400> field identifier
L:234 M:283 W: Missing Blank Line separator, <220> field identifier
L:236 M:283 W: Missing Blank Line separator, <400> field identifier
L:246 M:283 W: Missing Blank Line separator, <220> field identifier
L:248 M:283 W: Missing Blank Line separator, <400> field identifier
L:258 M:283 W: Missing Blank Line separator, <220> field identifier
L:260 M:283 W: Missing Blank Line separator, <400> field identifier
L:272 M:283 W: Missing Blank Line separator, <220> field identifier
L:274 M:283 W: Missing Blank Line separator, <400> field identifier
L:287 M:283 W: Missing Blank Line separator, <220> field identifier
L:289 M:283 W: Missing Blank Line separator, <400> field identifier
L:297 M:283 W: Missing Blank Line separator, <220> field identifier
L:299 M:283 W: Missing Blank Line separator, <400> field identifier
L:310 M:283 W: Missing Blank Line separator, <220> field identifier
L:312 M:283 W: Missing Blank Line separator, <400> field identifier
L:320 M:283 W: Missing Blank Line separator, <220> field identifier
L:322 M:283 W: Missing Blank Line separator, <400> field identifier
L:334 M:283 W: Missing Blank Line separator, <220> field identifier
L:336 M:283 W: Missing Blank Line separator, <400> field identifier
L:347 M:283 W: Missing Blank Line separator, <220> field identifier
L:349 M:283 W: Missing Blank Line separator, <400> field identifier
L:360 M:283 W: Missing Blank Line separator, <220> field identifier
L:362 M:283 W: Missing Blank Line separator, <400> field identifier
L:372 M:214 E: (33) Seq.# missing, SEQ ID NO:18
L:376 M:283 W: Missing Blank Line separator, <220> field identifier
L:378 M:283 W: Missing Blank Line separator, <400> field identifier
L:387 M:283 W: Missing Blank Line separator, <220> field identifier
L:389 M:283 W: Missing Blank Line separator, <400> field identifier
L:400 M:283 W: Missing Blank Line separator, <220> field identifier
L:402 M:283 W: Missing Blank Line separator, <400> field identifier
L:412 M:283 W: Missing Blank Line separator, <220> field identifier
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/706,435

DATE: 07/01/2004 TIME: 13:19:36

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J706435.raw

```
L:414 M:283 W: Missing Blank Line separator, <400> field identifier
L:425 M:283 W: Missing Blank Line separator, <220> field identifier
L:427 M:283 W: Missing Blank Line separator, <400> field identifier
L:435 M:283 W: Missing Blank Line separator, <220> field identifier
L:438 M:283 W: Missing Blank Line separator, <400> field identifier
L:451 M:283 W: Missing Blank Line separator, <220> field identifier
L:453 M:283 W: Missing Blank Line separator, <400> field identifier
L:453 M:283 W: Missing Blank Line separator, <400> field identifier
L:495 M:283 W: Missing Blank Line separator, <220> field identifier
L:497 M:283 W: Missing Blank Line separator, <400> field identifier
L:598 M:283 W: Missing Blank Line separator, <400> field identifier
L:600 M:283 W: Missing Blank Line separator, <400> field identifier
L:608 M:283 W: Missing Blank Line separator, <400> field identifier
L:610 M:283 W: Missing Blank Line separator, <400> field identifier
L:24 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (28) Counted (27)
```

 \bigcirc